Volume Contents

Vol. 5, No. 1 (February 1995)

Critical Exchange

LEON HORSTEN and HERMAN ROELANTS / The Church-Turing Thesis and Effective Mundane Procedures 1–8

CAROL E. CLELAND / Effective Procedures and Computable Functions 9–23

General Articles

WILLIAM S. ROBINSON / Brain Symbols and Computationalist Explanation 25–44

SHIMON EDELMAN / Representation, Similarity, and the Chorus of Prototypes 45–68

PETER MOTT / Towards a Winograd / Flores Semantics 69–87

VALERIE GRAY HARDCASTLE / A Critique of Information Processing Theories of Consciousness 89–107

Book Reviews

Steve Joshua Heims, *The Cybernetics Group* (ERIC A. WEISS) 109–112

Kathleen Wellman, *La Mettrie: Medicine, Philosophy, and Enlightenment* (JUSTIN LEIBER) 112–115

Andrew Whiten (ed.), *Natural Theories of Mind: Evolution, Development and Simulation of Everyday Mindreading* (JUDITH FELSON DUCHAN) 115–120

Gary L. Drescher, *Made-Up Minds: A Constructivist Approach to Artificial Intelligence* (MALLORY SELFRIDGE) 121–124

Dorothy L. Cheney and Robert M. Seyfarth, *How Monkeys See the World* (ERIC DIETRICH) 124–127

Allen Newell, *Unified Theories of Cognitions* (PETER A. FACIONE) 127–131

Hans Burkhardt and Barry Smith (eds.), *Handbook of Metaphysics and Ontology* (TIMOTHY JOSEPH DAY) 131–134

Brent Berlin and Paul Kay, *Basic Color Terms: Their Universality and Evolution* (JOHAN M. LAMMENS) 135–138

Carol C. Gould (ed.), *The Information Web: Ethical and Social*

Implications of Computer Networking (ANDREW FEENBERG) 138–142

Charles Dunlop and Rob Kling (eds.), *Computerization and Controversy: Value Conflicts and Social Choices* (DEBORAH G. JOHNSON) 142–144

Michael Gabriel and John Moore (eds.), *Learning and Computational Neuroscience: Foundations of Adaptive Networks* (DANIEL S. LEVINE) 144–150

Terence Horgan and John Tienson (eds.), *Connectionism and the Philosophy of Mind* (TED A. WARFIELD) 150–155

Announcements 157–159

Vol. 5, No. 2 (May 1995)

DAN LLOYD / Consciousness: A Connectionist Manifesto 161–185

LAWRENCE J. KAYE / A Scientific Psychologistic Foundation for Theories of Meaning 187–206

GREGORY R. MULHAUSER / Materialism and the "Problem" of Quantum Measurement 207–217

ROBERT F. HADLEY / The "Explicit-Implicit" Distinction 219–242

DEREK PARTRIDGE and ANTONY GALTON / The Specification of "Specification" 243–255

Book Reviews

James F. Brulé and Alexander Blount, *Knowledge Acquisition* (VALERIE L. SHALIN) 257–261

Yves Kodratoff and Ryszard S. Michalski (eds.), *Machine Learning: An Artificial Intelligence Approach* (WRAY L. BUNTINE) 261–264

Eileen Cornell Way, *Knowledge Representation and Metaphor* (S. GILLIAN PARKER) 265–268

Stephen Schiffer and Susan Steele (eds.), *Cognition and Representation* (JAMES HIGGINBOTHAM) 268–273

John Dinsmore, *Partitioned Representations: A Study in Mental*

Representations, Language Understanding and Linguistic Structure (AFZAL BALLIM) 273–277

Afzal Ballim and Yorick Wilks, *Artificial Believers: The Ascription of Belief* (ANTHONY S. MAIDA) 277–280

Murray Singer, *Psychology of Language: An Introduction to Sentence and Discourse Processes* (CHARLES R. FLETCHER) 280–283

Stephen M. Kosslyn and Olivier Koenig, *Wet Mind: The New Cognitive Neuroscience* (DAVID L. KEMMERER) 283–288

Mark Rollins, *Mental Imagery: On the Limits of Cognitive Science* and Michael Tye, *The Imagery Debate* (LAWRENCE A. SHAPIRO) 288–297

S. C. Coval and P. G. Campbell, *Agency in Action: The Practical Rational Agency Machine* (RICHARD WYATT and DEEPAK KUMAR) 298–302

John R. Searle, *The Rediscovery of the Mind* (SELMER BRINGSJORD and BILL PATTERSON) 302–307

Vol. 5, No. 3 (August 1995)

Critical Exchange

MARTIN PICKERING and NICK CHATER / Why Cognitive Science Is Not Formalized Folk Psychology 309–337

WILLIAM EDWARD MORRIS and ROBERT C. RICHARDSON / How Not to Demarcate Cognitive Science and Folk Psychology: A Response to Pickering and Chater 339–355

General Articles

MICHAEL LOSONSKY / Embedded Systems *vs* Individualism 357–371

RICHARD REINER / Arguments Against the Possibility of Perfect Rationality 373–389

DEREK PARTRIDGE / On the Difficulty of Really Considering a Radical Novelty 391–410

Book Reviews

Steven Pinker, *The Language Instinct: How the Mind Creates Language* (DAVID L. KEMMERER) 411–417

Andy Clark, *Associative Engines: Connectionism, Concepts, and Representational Change* (KENNETH AIZAWA) 417–420

Kevin D. Ashley, *Modeling Legal Argument: Reasoning with Cases and Hypotheticals* (DONALD H. BERMAN) 420–426

Geoffrey Brown, *The Information Game: Ethical Issues in a Microchip World* (STACEY L. EDGAR) 426–429

Ernest Lepore and Robert van Gulick (eds.), *John Searle and His Critics* (JAMES E. TOMBERLIN) 429–432

Margaret A. Boden, *The Philosophy of Artificial Intelligence* (J. CHRISTOPHER MALONEY) 433–436

F. William Lawvere and Stephen H. Schanuel, *Conceptual Mathematics: A First Introduction to Categories* (JOHN L. BELL) 436–440

Han Reichgelt, *Knowledge Representation: An AI Perspective* (STUART C. SHAPIRO) 440–444

Ray Jackendoff, *Consciousness and the Computational Mind* (GEORGES REY) 444–448

John R. Josephson and Susan G. Josephson (eds.), *Abductive Inference: Computation, Philosophy, Technology* (MORTON L. SCHAGRIN) 448–450

Eric Dietrich (ed.), *Thinking Computers and Virtual Persons: Essays on the Intentionality of Machines* (ROBERT A. WILSON) 450–453

Robert W. Burch, *A Peircean Reduction Thesis: The Foundations of Topological Logic* (PATRICK J. HAYES) 454–465

VOLUME CONTENTS

Vol. 5, No. 4 (November 1995)

SYMPOSIA

HEURISTICS

TIMOTHY R. COLBURN / Heuristics, Justification, and Defeasible Reasoning 467–487

RICHARD E. KORF / Heuristic Evaluation Functions in Artificial Intelligence Search Algorithms 489–498

PAUL HUMPHREYS / Computational Science and Scientific Method 499–512

WHERE DOES *I* COME FROM?

Guest Editors

MARY GALBRAITH and WILLIAM J. RAPAPORT

MARY GALBRAITH and WILLIAM J. RAPAPORT / Preface 513–515

STUART C. SHAPIRO / Computationalism 517–524

MARY GALBRAITH / The *Verstehen* Tradition 525–531

MARK L. JOHNSON / Incarnate Mind 533–545

E. T. GENDLIN / Crossing and Dipping: Some Terms for Approaching the Interface between Natural Understanding and Logical Formulation 547–560

STUART G. SHANKER / The Nature of Insight 561–581

JEFF COULTER / The Informed Neuron: Issues in the Use of Information Theory in the Behavioral Sciences 583–596

DANAH ZOHAR / A Quantum Mechanical Model of Consiousness and the Emergence of 'I' 597–607

I. N. MARSHALL / Some Phenomenological Implications of a Quantum Model of Consciousness 609–620

Index 621–622